Task-w1 : Study of nested queries.

→ A nested query (subquery) is a query written inside another query. It is used when the result of the query is nested by another.

Types of nested queries:

1) Single-row subqueries: returns one value

EX:- Find employees with salary above the average salary

SELECT EmployeeName, Salary.
FROM Employee
WHERE Salary > (SELECT AVG (SALARY) FROM Employee)

2) Multiple-row subquery: returns multiple values.

Ex- Find employees who are in the same department as "Alice Johnson".

SELECT EmpName, Dept.
FROM Employee
WHERE Dept IN (SELECT Dept FROM Employee WHERE EmployeeName = 'Alice Johnson');

3) Nested with IN/ANY/ALL operators:-

EX:- Find employees earing more than any HR employee

SELECT EmpName, Salary
FROM Employee
WHERE Salary > ANY (SELECT Salary FROM Employee WHER Dept = 'HR');

4) Correlated Subquery:- Inner query depends on outer query.

Ex:- Find employees with salary greater than the average of their department.

```
SELECT Employee, Dept, Salary.
FROM Employee
WHERE Salary > (select Avg (salary)
                FROM Employee
                WHERE, Dept = C. Dept);
```

4.2 :- Performing query processing using Nested queries

1) Find employees with the hight highest salary.

```
SELECT Empname, salary.
FROM Employee
WHERE Salary = (SELECT Max (salary) FROM Employee);
```

2) Find employees who joined after Bobsmith.

```
SELECT EmpName, Joining Date
FROM Employee
WHERE Joining Date > (SELECT JoiningDate FROM
    Employee WHERE EmpName = 'Bobsmith').
```

3) Find employees who earn more than average salary of IT department.

```
SELECT EmpName, Dept, Salary.
FROM Employee.
WHERE Salary > (SELECT AVG (salary) FROM Employee
    WHERE Dept = 'IT');
```

4) Find employees from departments that have more than 2 employees.

```
SELECT Employee, Dept;
FROM Employee
WHERE Dept IN (SELECT Dept FROM Employee GROUP
    BY Dept Having COUNT(*) > 2);
```

5) Find employee working in the same city as 'David Broon'.

SELECT Employee, City

FROM Employee

WHERE City = (SELECT city FROM Employee WHERE EmpName= 'Dravid Broon').

EX No.	YLLTECH	
PERFORMANCE (5)		4
RESULT AND ANALYSIS (3)		3
VIVA VOCE (3)		3
RECORD (4)		4
TOTAL (15)		15
SIGN WITH DATE		13|00|25

Result:- A nested query is a query written inside another query is proveld